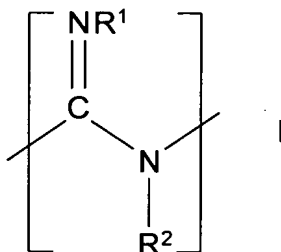


## CLAIMS

At least the following is claimed:

- 1 1. A print medium, comprising:  
2 a substrate having a fibrous component, wherein a cationic  
3 guanidine polymer compound or salt thereof and a metallic salt are each  
4 disposed within the fibrous component of the substrate.
- 1 2. The print medium of claim 1, wherein the metallic salt is selected from a  
2 monovalent metallic salt and a polyvalent metallic salt.
- 1 3. The print medium of claim 2, wherein the polyvalent metallic salt is  
2 selected from Group II metals and Group III metals.
- 1 4. The print medium of claim 1, wherein the metallic salt is selected from  
2 sodium chloride, aluminum chloride, calcium chloride, calcium nitrate,  
3 and magnesium chloride.
- 1 5. The print medium of claim 1, wherein the substrate includes the metallic  
2 salt in an amount of about 0.001 to 3 grams per meter squared (GSM).
- 1 6. The print medium of claim 1, wherein the substrate includes the cationic  
2 guanidine polymer compound or salt thereof in an amount of about 0.1 to  
3 3 grams per meter squared (GSM).

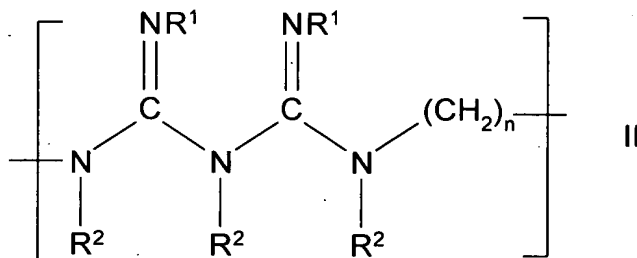
- 1 7. The print medium of claim 1, wherein the cationic guanidine polymer  
 2 compound or salt thereof includes at least two monomer units described  
 3 by structural formula (I),



- 4 wherein  $\text{R}^1$  is selected from hydrogen and a lower alkyl and  $\text{R}^2$  is  
 5 selected from hydrogen, an alkyl, an alkoxy, and a hydroxyl- substituted  
 6 alkoxy.

- 1 8. The print medium of claim 7, wherein the cationic guanidine polymer  
 2 compound or salt thereof includes at least two monomer units described  
 3 by structural formula (I), wherein  $\text{R}^1$  is hydrogen and  $\text{R}^2$  is hydrogen.

- 1 9. The print medium of claim 1, wherein the cationic guanidine polymer  
 2 compound or salt thereof includes at least two monomer units described  
 3 by structural formula (II),

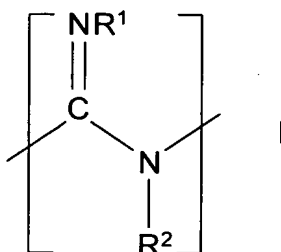


- 4 wherein "n" is an integer in the range of 1 to 10,  $\text{R}^1$  is selected from  
 5 hydrogen and a lower alkyl, and  $\text{R}^2$  is selected from hydrogen, an alkyl,  
 6 an alkoxy, and a hydroxyl-substituted alkoxy.

- 1 10. The print medium of claim 9, wherein the cationic guanidine polymer  
2 compound or salt thereof includes at least two monomer units described  
3 by structural formula (II), wherein "n" is 6, R<sup>1</sup> is hydrogen, and R<sup>2</sup> is  
4 hydrogen.
- 1 11. The print medium of claim 1, wherein the substrate is selected from  
2 printing paper, writing paper, drawing paper, and photobase paper.

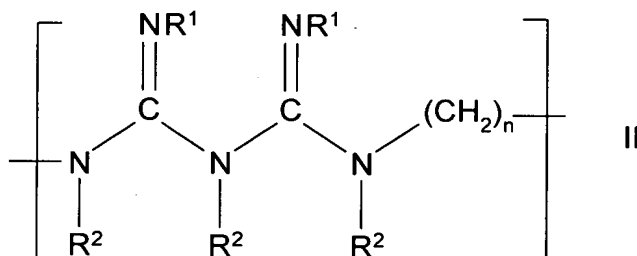
- 1 12. A method of forming print media, comprising:  
1 providing a fibrous component including a plurality of fibers;  
2 providing a cationic guanidine polymer compound or salt thereof  
3 and a metallic salt;  
4 introducing the cationic guanidine polymer compound or salt  
5 thereof and the metallic salt to the fibrous component;  
6 mixing the cationic guanidine polymer compound or salt thereof  
7 and the metallic salt with the fibrous component, wherein the cationic  
8 guanidine polymer compound or salt thereof and the metallic salt are  
9 disposed within the fibers of the fibrous component; and  
10 forming a substrate including the cationic guanidine polymer  
11 compound or salt thereof and the metallic salt disposed with the fibers of  
12 the fibrous component.
- 1 13. The method of claim 12, wherein introduction of both the cationic  
2 polymer and the metallic salt occurs in the surface sizing system.
- 1 14. The method of claim 12, wherein introduction of the cationic polymer  
2 occurs prior to the surface sizing process.
- 1 15. The method of claim 12, wherein the metallic salt is selected from a  
2 monovalent metallic salt and a polyvalent metallic salt.

- 1 16. The method of claim 12, wherein the cationic guanidine polymer  
 2 compound or salt thereof includes at least two monomer units described  
 3 by structural formula (I),



- 4 wherein  $\text{R}^1$  is selected from hydrogen and a lower alkyl and  $\text{R}^2$  is  
 5 selected from hydrogen, an alkyl, an alkoxy, and a hydroxyl- substituted  
 6 alkoxy.

- 1 17. The method of claim 12, wherein the cationic guanidine polymer  
 2 compound or salt thereof includes at least two monomer units described  
 3 by structural formula (II),



- 4 wherein "n" is an integer in the range of 1 to 10,  $\text{R}^1$  is selected from  
 5 hydrogen and a lower alkyl, and  $\text{R}^2$  is selected from hydrogen, an alkyl,  
 6 an alkoxy, and a hydroxyl-substituted alkoxy.

- 1 18. The method of claim 12, wherein the substrate is selected from printing  
 2 paper, writing paper, drawing paper, and photobase paper.

- 1 19. A print medium produced by the method of claim 12.
- 1 20. The print medium of claim 19, wherein the substrate is selected from  
2 printing paper, writing paper, drawing paper, and photobase paper.